

C L A I M S

1. An adjustable set of pedals for a motor vehicle, the adjustable set of pedals comprising:
 - 5 a first pedal (8) for braking of the motor vehicle;
 - a second pedal (7) for acceleration of the motor vehicle;means for supporting (5) the first and second pedal (8, 7); and
- 10 an adjustment device (9) for controlling selectively the position of the supporting means (5) with respect to a frame (2) of the motor vehicle and comprising a crank mechanism (16) set between the supporting means (5) and the frame (2);
- 15 the adjustable set of pedals is characterized in that the adjustment device (9) comprises:
 - a first guide (3) extending in a first direction (4) and supporting the supporting means (5) which are mobile along the first guide (3); and
- 20 a control rod (14) parallel to the first direction (4), slidably engaged through the first pedal (8), and connectable with the first pedal (8) for actuating a braking device (15) of the motor vehicle.

- 25 2. The adjustable set of pedals according to Claim 1, wherein the first guide (3) comprises a first screw mounted so that it can rotate about a first longitudinal axis (3a); the supporting means (5) being coupled to the

first screw via a first external-thread/internal-thread coupling.

3. The adjustable set of pedals according to Claim 1 or
5 Claim 2, wherein the adjustment device (9) further
comprises: a second guide (24) extending in a second
direction (25) substantially transverse to the first
direction (4); and a slide (23), mounted so that it can
slide along the second guide (24) under the action of
10 the thrust of the crank mechanism (16).

4. The adjustable set of pedals according to Claim 3,
wherein the crank mechanism (16) comprises a connecting
rod (19) set between the supporting means (5) and the
15 slide (23); and a crank (17) set between the frame (2)
and the connecting rod (19).

5. The adjustable set of pedals according to Claim 3 or
Claim 4, wherein the supporting means (5) are mobile
20 under the action of the thrust of the crank mechanism
(16) between a first end position and a second end
position; thrust means (51) are provided for displacing
the supporting means (5) into, and normally maintaining
them in, one of the first and second end positions.

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6. The adjustable set of pedals according to Claim 5,
wherein the thrust means (51) are elastic thrust means
set between the slide (23) and the crank mechanism (16).

7. The adjustable set of pedals according to any one of Claims 1 to 6, wherein the adjustment device (9) further comprises first clamping means (26) for blocking the supporting means (5) along the first guide (3); and a first actuator device (29) for actuating the first clamping means (26) between a first position of clamping of the supporting means (5) along the first guide (3) and a first position of release.

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8. The adjustable set of pedals according to Claim 7, wherein the first clamping means (26) comprise a plurality of first clamping members (27) carried by the supporting means (5), distributed around the first guide (3), and mobile away from and towards the first guide (3), and the first actuator device (29) comprises first actuator means (31, 37) for displacing the first clamping members (27) from the first position of clamping to the first position of release, and second actuator means (35) for displacing the first clamping members (27) from the first position of release to the first clamping position.

9. The adjustable set of pedals according to Claim 7 or Claim 8 and further comprising second clamping means (40) for blocking the first pedal (8) along the control rod (14); and a second actuator device (45) to actuate the second clamping means (40) between a second position

of clamping of the first pedal (8) along the control rod (14) and a second position of release.

10. The adjustable set of pedals according to Claim 9,
5 wherein the second clamping means (40) comprise a plurality of second clamping members (41) carried by the first pedal (8), distributed around the control rod (14), and mobile away from and towards the control rod (14), and the second actuator device (45) comprises
10 third actuator means (46, 49) for displacing the second clamping members (41) from the second position of clamping to the second position of release, and fourth actuator means (48) for displacing the second clamping members (41) from the second position of release to the
15 second clamping position.

11. The adjustable set of pedals according to Claim 9 or
Claim 10, wherein the first pedal (8) is rotatably mounted on the supporting means (5) for oscillating
20 about a second axis of fulcrum (11); third clamping means (52) are provided for blocking angularly the first pedal (8) about the axis of fulcrum (11), and a third actuator device (39) is designed to actuate the third clamping means (52) between a third position of clamping
25 of the first pedal (8) about the second axis of fulcrum (11) and a third position of release.

12. The adjustable set of pedals according to Claim 11,

wherein the first, second, and third actuator devices (29, 45, 39) are connected together for displacing the third clamping means (52) into the corresponding clamping position, when the first and the second 5 clamping means (26, 40) are displaced into their corresponding positions of release, and into the corresponding position of release when the first and the second clamping means (26, 40) are displaced into their corresponding clamping positions.

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13. The adjustable set of pedals according to any one of Claims 1 to 12, wherein the first direction (4) is a substantially rectilinear direction.

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14. The adjustable set of pedals according to any one of Claims 1 to 13, wherein the first pedal (8) is coupled to the control rod (14) via a second external-thread/internal-thread coupling.

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15. The adjustable set of pedals according to any one of Claims 1 to 14, wherein the first pedal (8) is hinged to the supporting means (5) for oscillating about a second axis of fulcrum (11), and the second pedal (7) is hinged to the supporting means (5) for oscillating, with 25 respect to the supporting means (5), about a fourth axis of fulcrum (10) parallel to the second axis of fulcrum (11).

16. The adjustable set of pedals according to Claim 15,
wherein the first pedal (8) is hinged, moreover, in a
position corresponding to an intermediate point thereof,
to a sleeve (12) slidable along the control rod (14) for
5 oscillating, with respect to the sleeve (12), about a
fifth axis of fulcrum (13) substantially parallel to the
second axis of fulcrum (11).

17. The adjustable set of pedals according to Claim 16,
10 wherein the sleeve (12) is coupled in an axially
slidable manner to the control rod (14) to perform
rectilinear displacements along the control rod (14),
and is connectable to the control rod (14) to impart on
the control rod (14), following upon oscillation of the
15 first pedal (8) about the second axis of fulcrum (11),
rectilinear displacements so as to control selectively
operation of a braking device (15).